Email: cewwm@bwssb.gov.in

Ph: 080-22945106

ಬೆಂಗಳೂರು ನೀರು ಸರಬರಾಜು ಮತ್ತು ಒಳಚರಂಡಿ ಮಂಡಳಿ

BANGALORE WATER SUPPLY & SEWERAGE BOARD

O/o Chief Engineer(UWP), 5th Floor, Cauvery Bhavan, Bangalore-560009.

No. BWSSB/CE(UWP)/DCE(WWM-E&W)/TA-1/697 /2025-26 Date : 20/02/26

ADDENDUM -1

Sub: Work of Design, Construction , commissioning of 60 MLD STP based on A2O with BNR with Tertiary Treatment and Power generation & Odour control unites at Bellandur including operation and maintenance of 7 years. (Turnkey Contract)-Call-2

Ref: BWSSB/CE(UWP)/DCE(WWM-E&W)/TA-1/558/2025-26 Dt :05-02-2026

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With reference to the above subject, invitation for this tender was invited vide IFT mentioned in reference letter this Addendum indicates the details of response to the pre bid queries.

Chief Engineer(UWP)
BWSSB

Encl: Replies Pre bid Queries

DESIGN, CONSTRUCTION, AND COMMISSIONING OF 60 MLD STP BASED ON A2O WITH BNR, TERTIARY TREATMENT, POWER GENERATION & ODOUR CONTROL UNITS AT BELLANDUR INCLUDING 7 YEARS OPERATION AND MAINTENANCE (TURNKEY CONTRACT) – 2nd Call

ADDENDUM NO.1

Amendment in Volumes be referred as under

<table>
<tr><th>Sr. No.</th><th>Tender Ref.</th><th>Existing Contents of Tender Document</th><th>Amended</th></tr>
<tr><td>1.</td><td>Volume-2 / Section-7, Cl. No. 5.22.1, Part 5-42</td><td>
5.22.1 60 MLD STP at Bellandur
<table>
<tr><th>Item/ Parameter/ Description</th><th>Units</th><th>60 MLD STP at Bellandur</th></tr>
<tr><td colspan="3">Primary Treatment</td></tr>
<tr><td>Type of clarifier</td><td></td><td>Plate Settlers with scum collection and removal system. Scraper shall be center-column supported with center drive.</td></tr>
<tr><td colspan="3">Primary Clarifier with Plate Settlers</td></tr>
<tr><td>Height of plate</td><td>m</td><td>1.35</td></tr>
<tr><td>Width of plate</td><td>m</td><td>1.00</td></tr>
<tr><td>Thickness of plate</td><td>m</td><td>1.00</td></tr>
<tr><td>Angle of inclination</td><td>degree</td><td>55.00</td></tr>
<tr><td>MOC of plate</td><td></td><td>SS 304</td></tr>
</table>
</td><td>
Shall be read as

5.22.1 60 MLD STP at Bellandur
<table>
<tr><th>Item/ Parameter/ Description</th><th>Units</th><th>60 MLD STP at Bellandur</th></tr>
<tr><td colspan="3">Primary Treatment</td></tr>
<tr><td>Type of clarifier</td><td></td><td>Tube Settlers with scum collection and removal system. Scraper shall be center-column supported with center drive.</td></tr>
<tr><td colspan="3">Primary Clarifier with Tube Settlers</td></tr>
<tr><td>Height of tube</td><td>m</td><td>1.35</td></tr>
<tr><td>Width of tube</td><td>m</td><td>1.00</td></tr>
<tr><td>Thickness of tube</td><td>m</td><td>1.00 (+/- 0.1)</td></tr>
<tr><td>Angle of inclination</td><td>degree</td><td>55.00 (typical)</td></tr>
<tr><td>MOC of tube</td><td></td><td>uPVC with UV Stabilised</td></tr>
<tr><td>Shape of Tubes</td><td>-</td><td>Chevron Unequal Hexagonal</td></tr>
</table>
All other requirements shall remain same as per Tender Document.
</td></tr>
</table>

Addl. Chief Engineer (WWM-Project-East) BWSSB

Chief Engineer (UWP) 5th Floor, Cauvery Bhavan BWSSB

DESIGN, CONSTRUCTION, AND COMMISSIONING OF 60 MLD STP BASED ON A2O WITH BNR, TERTIARY TREATMENT, POWER GENERATION & ODOUR CONTROL UNITS AT BELLANDUR INCLUDING 7 YEARS OPERATION AND MAINTENANCE (TURNKEY CONTRACT) – 2nd Call

ADDENDUM NO.1

<table>
<tr><th>Sr. No.</th><th>Tender Ref.</th><th>Existing Contents of Tender Document</th><th>Amended</th></tr>
<tr><td>2.</td><td>Volume-2 / Section-7, Cl. No. 5.22.1, Part 5-53</td><td>
5.22.1 60 MLD STP at Bellandur
<table>
<tr><th>Item/ Parameter/ Description</th><th>Units</th><th>60 MLD STP at Bellandur</th></tr>
<tr><td colspan="3">Digester - Gas Mixing Blower</td></tr>
<tr><td>Type of Blower</td><td></td><td>Rotary Lobe PD with VFD Control.</td></tr>
</table>
</td><td>
Shall be read as

5.22.1 60 MLD STP at Bellandur
<table>
<tr><th>Item/ Parameter/ Description</th><th>Units</th><th>60 MLD STP at Bellandur</th></tr>
<tr><td colspan="3">Digester - Gas Mixing Blower</td></tr>
<tr><td>Type of Blower</td><td></td><td>Rotary Tri-Lobe PD with VFD Control / Sliding Vane Blower</td></tr>
</table>
All other requirements shall remain same as per Tender Document.
</td></tr>
</table>

Addl. Chief Engineer (WWM-Project-East) BWSSB

Chief Engineer (UWP)

Bangalore Water Supply and Sewerage Board,

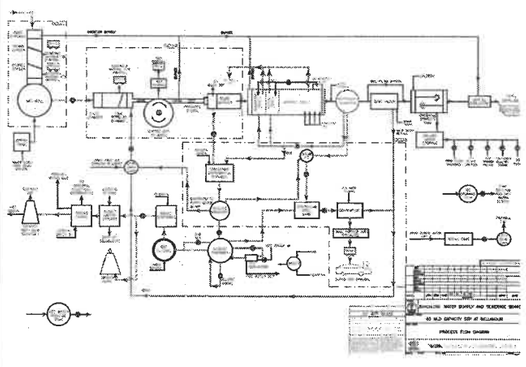
Bangalore

Chief Engineer (UWP) 5th Floor, Cauvery Bhavan BWSSB

BANGALORE WATER SUPPLY AND SEWERAGE BOARD (BWSSB)

NAME OF PROJECT : DESIGN, CONSTRUCTION, AND COMMISSIONING OF 60 MLD STP BASED ON A2O WITH BNR, TERTIARY TREATMENT, POWER GENERATION & ODOUR CONTROL UNITS AT BELLANDUR INCLUDING 7 YEARS OF OPERATION & MAINTENANCE. (TURNKEY CONTRACT) - 2nd Call

REPLY TO PRE-BID QUERIES, PRE-BID MEETING DATED: 11.02.2026

Sr. No.	Vol.No. / Clause No.	Pg No.	Description	Bidder's Queries	BWSSB Replies
1	Vol. No 2/ 5.22	263	**TSPS & STP Design/Sizing Criteria and Minimum Requirements** Maximum Velocity through screen openings at maximum flow = 0.90 m/s	The latest edition of CPHEEO manual recommends velocity through screen as 0.6-1.2 m/sec at peak flow. Hence, we understand that the same is applicable here. Kindly confirm.	Tender Conditions Prevails.
2	Vol. No. 1/ 1.1	148	1.1 **Background to the Project** Design, Construction, Commissioning of 60 MLD Capacity STP Based on "TSPS with Preliminary & Primary Treatment followed by Anaerobic-Anoxic-Aerobic (A2O-Process) with Biological Nutrient Removal (Nitrification, De-nitrification, and Phosphorus Removal), with Tertiary Treatment, Chlorine Disinfection, Anaerobic Digesters, Gas Storage & Scrubbing with Power Generation, Sludge Dewatering and Odour Control Units" Thereafter Operation & Maintenance of All Constructed Facilities for Seven (7) Years.	It is requested to accept the SBR process due to its benefits in saving land, cost, and power in addition to A2O process. Please confirm.	Tender Conditions Prevails.
3	Vol. No 2/ 5.22	264	**TSPS & STP Design/Sizing Criteria and Minimum Requirements** No of grit chambers Working = 3.00 Nos Number of grit chambers Standby = 1.00 Nos	We presumed that the 3 grit chambers are designed for equal peak flow. With 1 Standby Channel. Kindly confirm.	Tender Conditions Prevails.
4		259	Influent BOD= 350 mg/l and COD = 800 mg/l	The COD/BOD ratio is higher than CPHEEO norms. Kindly confirm that the influent COD is primarily biodegradable and not affected by industrial process.	Tender Conditions Prevails.
5		260	Ammonical Nitrogen :0.50 mg/L	As per CPHEEO manual permissible ammonicals nitrogen in treated effluent < 5 mg/L. Kindly confirm if NH4N limit can be considered as < 5 mg/l instead of < 0.5 mg/L.	It shall be 1 mg/L
6		259	**TSPS & STP Design/Sizing Criteria and Minimum Requirements** All the building dimensions (or Area when calculated) specified are minimum; However, Contractor may upsize these dimensions (or Area when calculated) based on design to meet the specified tender requirements.	We understand that the quantities and sizes given are for reference purposes only, and bidders may change the sizes as per his design. Kindly Confirm.	Tender Conditions Prevails.
7		1352	**Process flow diagram** 	Flow diagram shows different bypass points. There are too many bypasses. Request to allow bidder to give bypass only from TSPS, Vortex outlet. Kindly confirm.	Tender Conditions Prevails. Can be discussed during Detail Engineering.
8		General	Date of Submission	Looking to the volume of work involved in tender preparation, we request to extend the date of submission at least by 3-4 weeks after receipt of the reply to Prebid queries.	Tender Conditions Prevails.
9	**(Page No.11 of 141)**	3.1.2 (b) (i) Experience in Execution of STPs (Page No.11 of 141)	The Applicant as a sole entity or Partner in a Joint Venture shall have successfully executed, including complete Design, Procurement, Supply, Installation, Construction, Testing, and Commissioning of all Civil, Mechanical, Electrical, and Instrumentation Works of minimum One (1) No. Sewage Treatment Plant of 48 MLD Capacity, based on the Sequencing Batch Reactor (SBR)/Activated Sludge Process (ASP) with fine Filtration (Disc Filter/Ultrafiltration) to meet the discharge standards of pH - 5.5 to 9.0, BOD - 10 mg/l, COD - 50 mg/l, TSS - 10 mg/l, TN-10 mg/l, TP-1 mg/l and Fecal Coliform - 230 MPN/100 ml and should be in operation for at least Two (2) years in last five (5) years from date of tender notification.	The experience of Fine Filteration has been sought at Clause 3.1.2 (b)(v). In lieu of this, we understand that the clause under reference can be read as: The Applicant as a sole entity or Partner in a Joint Venture shall have successfully executed, including complete Design, Procurement, Supply, Installation, Construction, Testing, and Commissioning of all Civil, Mechanical, Electrical, and Instrumentation Works of minimum One (1) No. Sewage Treatment Plant of 48 MLD Capacity, based on the Sequencing Batch Reactor (SBR)/Activated Sludge Process (ASP) to meet the discharge standards of pH - 5.5 to 9.0, BOD - 10 mg/l, COD - 50 mg/l, TSS - 10 mg/l, TN-10 mg/l, TP-1 mg/l and Fecal Coliform - 230 MPN/100 ml and should be in operation for at least Two (2) years in last five (5) years from date of tender notification.	Yes, Confirmed.

BANGALORE WATER SUPPLY AND SEWERAGE BOARD (BWSSB)

NAME OF PROJECT : DESIGN, CONSTRUCTION, AND COMMISSIONING OF 60 MLD STP BASED ON A2O WITH BNR, TERTIARY TREATMENT, POWER GENERATION & ODOUR CONTROL UNITS AT BELLANDUR INCLUDING 7 YEARS OF OPERATION & MAINTENANCE. (TURNKEY CONTRACT) - 2nd Call

REPLY TO PRE-BID QUERIES, PRE-BID MEETING DATED: 11.02.2026

Sr. No.	Vol.No. / Clause No.	Pg No.	Description	Bidder's Queries	BWSSB Replies
10	**(Page No.12 of 141)**	3.1.2 (b) (iii)	The Applicant as a sole entity or Partner in a Joint Venture shall have successfully executed, including complete Design, Procurement, Supply, Installation, Construction, Testing, and Commissioning of all Civil, Mechanical, Electrical, and Instrumentation Works of at least One (1) No. Sewage Treatment Plant of 48 MLD capacity with Designed Power Generating Facility of minimum 500 KW from Anaerobic Digestion and in operation for One (1) year prior to the date of Tender notification in last Five (5) Years from the date of Tender Notification	The Applicant as a sole entity or partner in a Joint Venture shall have successfully executed, including complete Design, Procurement, Supply, Installation, Construction, Testing, and Commissioning of all Civil, Mechanical, Electrical, and Instrumentation Works of at least One (1) No. Sewage Treatment Plant of 48 MLD capacity with Designed Power Generating Facility of minimum 500 KW from Anaerobic Digestion and in operation, prior to the date of Tender notification in last Five (5) years.	Confirmed.
11	**Part 8 of 139**	Volume 2, Consolidated Mechanical Equipment Vendor List, S No. 12, Part 8 of 139	Make: Vortex Type Grit Removal Mechanism	Micro Transmission System is one of the reputed makes and is already supplying for various BWSSB projects through various executing agencies. In lieu of this, request you to add this name in approved manufacturer list for this equipment.	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
12	**Part 8 of 143**	Volume 2, Consolidated Mechanical Equipment Vendor List, S No. 38, Part 8 of 143	Make: Disc Filters	Micro Transmission System is one of the reputed makes and is already supplying for various BWSSB projects through various executing agencies. In lieu of this, request you to add this name in approved manufacturer list for this equipment.	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
13		General:	Bid Security, Performance Security, Security for Mobilization Advance	We request you to please allow submission of the respective securities in form of surety bonds form the insurance companies as per guidelines from finance ministry.	Tender Conditions Prevails.
14	**Part 5-45**	Volume 2, Part 5-45	Height of blower building is proposed to be 9 m and an EOT with LT,CT ad Lift is proposed.	Since Centrifugal Turbo Blowers have been proposed, Electric Hoist with LT and Vertical lift serves the purpose in place of EOT. IN lieu of this, the height of blower room can be reduced to 7.5 m, reducing the head room required for the operation of Electric Hoist in place of EOT. Further, as per explanation Electric Hoist may be permitted in place of EOT.	Tender Conditions Prevails, However the height of Building can be considred as 8.0m.
15	**Part 5-56**	Volume 2, Part 5-56	Centrifuge	We request you to please allow Screw press/ Volute Press for sludge dewatering, owing to its much better sludge dewatering characteristics.	Tender Conditions Prevails.
16	**Part 5-55**	Volume 2, Part 5-55	Centrifuge Feed Pumps	If Screw Press is allowed, the pumping requirements changes to submersible pump in place of positive displacement pump. We request you to please allow respective changes.	Tender Conditions Prevails.
17		Volume 2, Clause 4.7.3	Design mix Concrete	We understand that blending the concrete with fly ash along with admixtures is permitted for the pouring the design mix concrete, subject to availability of fly ash. The use of fly ash shall ead to reduction in the minimum cement content requirement for different grades of concrete. The the quantity of cement may please be permitted based on the Design mix.	Tender Conditions Prevails.
18	Vol-2 / Sec-7 / Cl. 5.22	5-42	Primary Clarifier with Plate Settlers	Please confirm that the dimension of the primary clarifier specified is indicative and the Bidder is free to modifiy size as per surface overflow rate. Also the size of the plate shall be based on standard manufacturer / bidders design and MOC shall be PVC.	Refer Addendum-1.
19	Vol-2 / Sec-7 / Cl. 5.22	5-43	A2O Basin	As per typical design in all other BWWSB jobs, for biological treatment N-1 condition shall not prevail. Also this is modular design and hence N-1 is not required. Kindly confirm.	N-1 conditions is not a mandatory.
20	Vol-2 / Sec-7 / Cl. 5.22	5-44	A2O Basin	Please confirm that the volume of reactors specified is indicative and bidder shall design A2O process as per CPHEEO to meet the functional guarantee requirement	Noted. Bidder to note that any change in number of units as specified in the tender will not be allowed. The units, size volumes, equipment capacities and system configurations should be as per CPHEEO / international standard references and with respect to tender specifications and complying to the performance criteria as specified in tender.
21	Vol-2 / Sec-7 / Cl. 5.22	5-44, 5- 45	Submersible Mixers for Anaerobic / Anoxic / Deaeration Zones	Please confirm that the mixing power specified is very high and the same shall be as per manufacturer design and CPHEEO manual.	Noted and confirmed shall comply to the performance requirement as specified in the tender.
22	Vol-2 / Sec-7 / Cl. 5.22	5-45	Process Air blower with acoustic hood	Fouling factor for blower design shall be considered as 0.9. Kindly confirm.	Tender Conditions Prevails.
23	Vol-2 / Sec-7 / Cl. 5.22	5-45	Process air diffusers	Please confirm that fixed type diffuser arrangement shall be provided	Tender Conditions Prevails.
24	Vol-2 / Sec-7 / Cl. 5.22	-	Building Sizes Blower Building, Chemical Building, Secondary Pump House, Primary sludge pump house, Centrifuge Feed Pump House, Centrifuge Building	Please confirm that the dimension of the various buildings specified is indicative and bidder shall be as per CPHEEO manual & bidders design	Noted. Bidder to note that any change in number of units as specified in the tender will not be allowed. The units, size volumes, equipment capacities and system configurations should be as per CPHEEO / international standard references and with respect to tender specifications and complying to the performance criteria as specified in tender.
25	Vol-2 / Sec-7 / Cl. 5.22	5-48	Disc Filter	It is specified that Maximum over flow rate (At decant flow rate) is 10 m3/m2/hr. We presume that it is filtration rate at average flow rate.	Tender Conditions Prevails. Refer Part 5.

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REPLY TO PRE-BID QUERIES, PRE-BID MEETING DATED: 11.02.2026

Sr. No.	Vol.No. / Clause No.	Pg No.	Description	Bidder's Queries	BWSSB Replies
26	Vol-2 / Sec-7 / Cl. 5.22	5-48	Disc Filter	As the disc filter is provided with cover by the manufacturer, separate building is not required. Please confirm	Bidder to consider separate building RCC Roof /MS sheet
27	Vol-2 / Sec-7 / Cl. 5.22	5-51	Gravity Sludge thickener	Please confirm that the gravity thickener shall be considered as per the bidder's design and can be combined as an Integral thickener	Tender Conditions Prevails.
28	Vol-2 / Sec-7 / Cl. 5.22	5-52	Anaerobic Sludge Digestor	We presume that the digestors are to be maintained at consistency of 5% and not at the inlet of digester. Please confirm	Tender Conditions Prevails.
29	Vol-2 / Sec-7 / Cl. 5.22	5-52	Anaerobic Sludge Digestor	Bidder requests that the digestors shall be designed with gas storage (membrane/MS dome) instead of separate gas holder. Accordingly the mixing arrangement shall be only through internal recirculation pump	Tender Conditions Prevails. Refer Part 5.
30	Vol-2 / Sec-7 / Cl. 5.22	5-52	Anaerobic Sludge Digestor	Please confirm that the volume of digestor specified is indicative and bidder shall design as per CPHEEO to meet the functional guarantee requirement	Tender Conditions Prevails.
31	Vol-2 / Sec-7 / Cl. 5.22	5-58,59	Odour Control Units – OCU-1, OCU-2 & OCU-3	Please confirm that the type of OCU treatment, capcities are indicative and bidders shall design based on the guarantee outlet odour parameters.	Tender Conditions Prevails.
32	Vol-2 / Sec-7 / Cl. 5.22	5-59	List of flow measurement	As per the tender, electromagnetic flowmeters are required on the common discharge line of raw sewage pumps and the same shall be shifted after grit removal to protect the flow meter. Also Providing Parshall Flume flow measurement at multiple locations appears to be redundant and the same shall be as per bidder's design Kindly confirm.	Tender Conditions Prevails.
33	Vol-2 / Sec-7 / Cl. 5.22	5-58	Plant DG Building-RCC Framed Structure	Since DG comes with Accoustic enclosure which is suitable for outdoor application, RCC framed Structure is not required. Kindly confirm	RCC Building / Sheet roof shed may be considered
34	Volume -2 /Part 13	13-35	13.24 Laboratory Instruments and LIMS system	Since there is an existing STP with laboratory already there, separate Lab Instruments and LIMS is not required. Please confirm	Tender Conditions Prevails. The bidder shall consider the following to be deleted 1) Individual/benchtop, PH meter at lab 2) Portable Turbidity meter 3) Online TOC meter at lab, if the same is provided and installed as part of online multi parameter filed instrumentation.
35	Vol-2 / Sec-7B / Cl. 2.4	Technical Schedule X- 3	2.4. Captive Power Generation during Operation and Maintenance Period	We request you to amend the formula based on VSS as follows TD = Design average influent sewage VSS concentration of plant (mg/L) TA = Monthly average of actual measured influent sewage VSS concentrations of plant (mg/L)	Tender Conditions Prevails
36	Volume-2 / Part-12 / 12.3	12-4	**Power Supply Arrangement** **Requirement for Power Consumption / Captive Power Generation** ...The guaranteed value shall be expressed in kWh/month and shall not fall below the 10% of the revenue benchmark for captive power generation of 4,18,500 kWh/month as stipulated by the Employer...	We presume that the captive power generation specified in this clause is indicative and the bidder shall give the guarnatee as per their design	The benchmark values provided in tender are indicative. However, the bidder has to give the guarantees the minimum power generation as per relevant technical schedule.
37	Volume-2 / Part-12 / 12.3	12-4	**Power Supply Arrangement** **Requirement for Power Consumption / Captive Power Generation** The Bidder shall clearly indicate the guaranteed daily power consumption for the proposed works in Technical Schedule-X. The guaranteed value shall be expressed in kWh/day and shall not fall above the 5% of the budgeted benchmark power consumption of 29,600 kWh/day as stipulated by the Employer.	We presume that the power consumption specified in this clause is indicative and the bidder shall give the guarnatee as per their design	The benchmark values provided in tender are indicative. However, the bidder has to give the guarantees the minimum power generation as per relevant technical schedule.
38	Volume -2 /Part 5-55	137 of 1206	Min Gas Engine Efficiency-40%	We request Min Gas Engine Efficiency as 35% instead of 40% similar to other recent floated BWSSB STP Tenders. Kindly confirm	Tender Conditions Prevail.
39	Vol-2 / Sec-7 / Cl. 5.22	5-52	Digester- VSS reduction	Biogas generation per kg VSS destruction shall be based on bidder's experience. Please confirm	Tender Conditions Prevail.
40	Vol-2 / Sec-7 / Cl. 5.22	5-54	Biogas Flare	As Biogas flare is operated only during the emergency conditions or during the non operating period of gas engine, standby for gas flare is not required. Please confirm	Noted & Confirmed. Associated blowers and pumps shall have standby as per tender.
41	Vol-2 / Sec-7 / Cl. 5.22		MOC of wetted parts of Primary, Secondary Clarifiers and Thickener Mechanism	We understand the MOC of the wetted parts of primary and secondary clarifier mechanism, thickner mechanism shall be MS Epoxy painted. Please confirm	Noted and Confirmed
42	Vol-2 / Sec-7 / Cl. 5.22	5-37	Ammonical Nitrogen	As per KSPCB norms, permissible ammonical nitrogen in treated effluent is < 5 mg/L. Kindly confirm if the NH4-N limit can be considered as < 5 mg/L instead of 0.5 mg/L.	It shall be 1 mg/L
43	Vol-2 / Sec-7 / Cl. 5.17.9	5-26	Cooling Water System using RO Water for various plant utilities	The tender specifies using RO water for various usages mentioned in tender. We presume that it is not mandatory and bidder can choose the technology for for internal water treatment based on water quality requirement of equipment manufacturer. Please confirm	Tender Conditions Prevails.
44	Vol-2 / Sec-7 / Cl. 5.14	5-19	Flow Distribution Box - Weir plates	The tender specifies adjustable SS 316 weir plates. Kindly confirm if FRP material may be used as an equivalent, subject to corrosion protection.	Tender Conditions Prevails.

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Sr. No.	Vol.No. / Clause No.	Pg No.	Description	Bidder's Queries	BWSSB Replies
45	Vol-2 / Sec-7 / Cl. 5.22	5-41	Parshall Flume Channel	Kindly confirm if RCC construction of the Parshall Flume is acceptable.	Confirmed.
46	Vol-2 / Sec-7 / Cl. 5.23	5-52	Digester gas mixing blower	The mixing rate of digester gas mixing blower shall be as per the bidder's design. Please confirm.	Tender Conditions Prevails.
47	Vol-2 / Sec-7 / Cl. 5.23	5-53	Digester gas mixing blower	The type of gas mixing blower shall also include sliding vane. Please confirm.	Refer Addendum-1.
48	Vol-2 / Sec-7 / Cl. 5.22	5-58	**Odour Control Units**	Kindly confirm whether the RCC framed structure building for odour control units may be excluded from scope.	Tender Conditions Prevails.
49	Vol-2 / Sec-7 / Cl. 5.22	5-22	**60 MLD STP Bellandur**	Kindly confirm that the sizing of all RCC structures, buildings and equipments shall be considered as per bidder's design	Tender Conditions Prevails.
50	Vol-2 / Sec-7 / Cl. 5.22	5-47	**Secondary Clarifier** Surface Overflow rate	Kindly confirm that the surface overflow rate for the secondary clarifier may be designed as per CPHEEO Manual.	Refer CPHEEO Sewerage Manual Table 5.8 for Weir overflow rate.
51	Vol-2 / Sec-7 / Cl.8.34	8-118	**Chlorine Storage period** Storage for chlorine tonners sufficient for one month usage	Thirty day storage seems excessive request acceptance of 15 days storage based on normal dosing rates.	Tender Conditions Prevails.
52	Vol-2 / Sec-7 / Cl. 5.22	5-59	**Bulk Poly Storage** 30 days	Thirty day storage seems excessive request acceptance of 15 days storage based on normal dosing rates.	Bidder to consider Chlorine storage for 15 days for the dosing rate specified in Part 5, Part 5-56
53	Vol-2 / Sec-7 / Cl. 5.22	5-46	**Alum Dosing System**	Based on the influent total phosphorus (TP) concentration, TP removal is expected to be achieved through biological phosphorus removal. No chemical precipitation appears to be required, and biological removal alone seems sufficient to meet the specified outlet TP limits. Accordingly, alum dosing system is not envisaged. Kindly confirm whether the provision of an alum dosing system can be excluded from the scope.	Tender Conditions Prevails.
54	Vol-2 / Sec-7 / Cl. 5.22	5-37	Odour Control Units – Outlet Odour Levels	The tender specifies outlet odour levels as "100 ppb maximum" at the OCU outlet and "10 ppb maximum" at the plant boundary, we presume that this this refers to H_2S only. Please confirm	Tender Conditions Prevails.
55	Vol-2 / Sec-7 / Cl. 5.22	5-36	Influent BOD = 350 mg/L and COD = 800 mg/L	The COD/BOD ratio is higher than CPHEEO norms. Kindly confirm that the influent COD is primarily biodegradable and not affected by industrial sources.	Tender Conditions Prevails.
56	Vol-2 / Sec-7 / Cl. 5.22	5-37	Odour Control Units – Outlet Odour Levels	The tender specifies outlet odour levels as "100 ppb maximum" at the OCU outlet and "10 ppb maximum" at the plant boundary, we presume that this this refers to H_2S only. Please confirm	Tender Conditions Prevails.
57	Vol-2 / Sec-7 / Cl. 5.22	5-41	Parshall Flume Channel :	Kindly confirm if the RCC construction of the Parshall Flume channel is acceptable.	Confirmed.
58	Vol-2 / Sec-7 / Cl. 5.22	5-56	Poly Dosing System (for centrifuge)	The mixing power shall be as per manufacturer design. Please confirm	Tender Conditions Prevails.
59	Volume -2 /Part 5-49	131 of 1206 & 135 of 1206	Disc Filter Building-RCC Frame Stilt structure	We hereby request to remove RCC framed structure building for disc filter since filter comes with the protective cover at the top which protects the disc.	Bidder to consider separate building RCC Roof /MS sheet
60	Volume -2 /Part 5-36	118 of 1206	5.22.1 60 MLD STP at Bellandur	We understand the design details provided unde the table 5.22.1 and its ammentment takes precedence over other general specifications stated else where in the tender. Kindly confirm	Confirmed. Vol 2, Part 5 Process Requirements will take precedence over general specifications
61	Volume-2/section 7/ 1.3	9 of 1206	Contractor shall coordinate with KSPCB, BBMP, BESCOM, LDA and any other Departments and obtain all applicable consents certificates necessary for the design, build (construction) and operation & maintenance of the Works as described in the contract.	We understand that any statutory fee paid to the other department will be reimburshed to the con tractor at actual. Kindly confirm	Any statutory fees shall be paid by contractor and the same will be reimbursed by employer at actuals. Contractor shall coordinate for all activities.
62	Cl. 2.5 — Road Works		Contractor to obtain permits for road excavation and diversions.	Kindly confirm whether liaisoning with traffic/police authorities for road permissions will be assisted by BWSSB	It is in scope of bidder. Bidder to note that necessary assistance will be provided by BWSBB
63	Volume 2, Part 7, Clause 7.13.1	304 of 1206	No separate PLC system for monitoring and control of process system or complete plant control from process system vendor shall be accepted. Contractor shall note the importance of this clause.	The bidder understands that certain process equipments shall require PLCs and thus, these PLCs shall be provide the respective vendor along with the process equipment. Therefore, such vendor package PLCs shall be acceptable. Kindly confirm the bidder's understanding.	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
64	Vol-1/ Pg No-7	7 of 141	Description of Tender	Bidder understanding is that the price estimate is excluding of energy charges and it will be paid extra to the contractor. Kindly confirm.	Yes, Energy charges will be paid directly by BWSSB.
65			Treated Water Sale	Kindly clarify whether the sale of treated water generated from the STP is permitted.If allowed, please specify he procedure, tern and revenue-sharing structure, if any.	It will be discussed during Detailed Engineering.
66	Volume 2, Clause 5.22, TSPS & STP Design/Sizing Criteria and Minimum Requirements, Part 5-37 & Part 5 38		Treated Biogas Quality Requirements H2S Maximum : 100 ppm Moisture (H20) max: 5 g/m3	We request you that H2S in treated biogas be permitted < 500 ppm or as per engine manufacturer recommendation.We also request you to remove the moisture requirement in the treated biogas and also remove the provision of associated equipment for the same. Kindly confirm	Maximum H2S in the scrubber outlet gas shall be as per Original Equipment manufacturer(OEM)design.

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Sr. No.	Vol.No. / Clause No.	Pg No.	Description	Bidder's Queries	BWSSB Replies
67	Volume 2, Part 5-48		Blower type: Centrifugal turbo blower with VFD type	We request you to allow Tri lobe blowers for aeration.	The blowers for Air Diffusers system shall be Turbo Blower/Tri Lobe type, Bidder shall ensure noise level as Per IS Code to be maintained, with necessary acoustic arrangement to be Provided by the bidder.
68	Volume 2, Part5-58		Biogas Scrubber	We request that Single biogas scrubbing system sized to handle the biogas flow as per bidder's design shall be provided, as required for operation. However, the scrubber will be designed to handle inlet H2S of 2500 ppm and to achieve outlet H2S content in scrubbed biogas < 500 ppm or as per engine manufacturer recommendation	Bidder to consider as per engine manufacturer recommendation
69	PART 5-8; Cl no.: 5.12 : Design of Plant Layout		All process and non-process buildings including pumping stations shall be provided with wall mounted digital display touch screen of size 15 inches to digitally display real time temperature and noise level of the respective buildings, and same shall be connected through plant PLC based SCADA for remote monitoring/display.	We request that this requirement be deleted from *the* scope of work	Shall be provided wherever necessary.
70	Vol 2, Part 5, clause 5.20, page 5-27 upto 5-35		Vol 2, Part 5, clause 5.20 regarding sampling/analysis locations and frequencies	Sampling / Analysis for various parameters at specified locations along with the frequency for measurement provided for O&M period is very exhaustive and is not required. Provision of Online real time monitoring of the parameters mandatory as per CPCB regulations are being monitored at the inlet and outlet of the plant is to be provided by bidder. Measurement of certain parameters being tested once or twice a week seems adequate. We request you to review the requirement of testing wiht respect to parameters, locations and frequency. Please review and confirm.	Confirmed, The frequency for effluent sample validation shall be once per month during the O&M period
71	Vol -2 / Sec-7/Part -I/Cl.no.1.4	1 - 5 // 10 of 1206	**Gravity fed incoming pipelines up to terminal manholes** This contract also includes the complete scope of work for the gravity-fed incoming pipelines up to last manhole of the proposed STP including all the required works for ensuring seamless functioning of these pipelines. The total length of these pipelines shall be 250m and diameters ranging from 800 to 1000 mm.	Kindly indicate the Invert level of the gravity pipeline in the last manhole of the proposed STP.	All required supporting data have been furnished along with the tender documents. Any additional site-specific information shall be obtained by the bidder through an independent site visit. Tender conditions prevail.
72	Vol -2 / Sec-7/Part -I/Cl.no.1.15	1 - 10 // 15 of 1206	1.15 Battery Limits between proposed STP and incoming gravity sewer line/s Last Manhole of the incoming sewer will be terminated 10m away from the plant boundary (By others). Contractor for this STP has to continue that pipe line to proposed TSPS location with same diameter and slope.	As contradiction is observed in the length of gravity sewer line in clause 1.4 and 1.15, we presume that the scope of works of laying of incoming sewer pipeline from the last manhole upto the proposed TSPS of the STP is for the length of 10m only.	Bidder to field Verify.
73	Volume 3	6 of 12	DWG.NO-TCE.13052A-CV-3008-SL-30602 Overall Plant Layout with Contour.	Kindly provide the boundary dimensions of the proposed site.	Refer to Topographical Survey Drawing. Topographical survey drawing shall be collected from BWSSB.
74	Vol -2 / Sec-7/Part -1/Cl.no.1.3	1 - 2 // 7 of 1206	**1.3 Scope of Works** All preparatory work including clearing, levelling of site, site grading, formation of Finished Ground Level (FGL), construction of internal roads, all around compound wall etc., excavation, dewatering as required and disposal of all surplus earth to a suitable location as specified/directed by Engineer.	Please provide the disposal location and lead distance for disposal of the surplus and unserviceable earth/debris to outside the plant premises.	Bidder to field Verify.
75	Vol -2 / Sec-7/Part -5/Cl.no.5.13	5 - 11 // 93 of 1206	**5.13 Design Requirements** All channels carrying process liquid shall be fully covered with solid non-skid GRP cover plates (not grating) designed for human traffic live loads at a minimum and heavy vehicle live load wherever the channel crosses traffic paths.	Process liquid channel shall be fully covered with either RCC Precast slab / GRP cover Plates. Please confirm	Tender Conditions Prevails.
76	Vol -2 / Sec-7/Part -5/Cl.no.5.13	5 - 11 // 93 of 1206	**5.13 Design Requirements** Sky blue porcelain-like finish (tiles) shall be provided at the following locations to ensure a clear view of the treated water, facilitating easy visual inspection.	Please elaborate the specific White/Sky Blue porcelain requirement like thickness etc.,.	The tender contains all required information for bid preparation. The bidder shall review the complete document set and verify particulars. Tender conditions prevail.
77	Vol -2 / Sec-7/Part -5/Cl.no.5.12	5 - 7 // 89 of 1206	**5.12 Design of Plant Layout** Bird eye view of entire plant area shall be provided by constructing the viewing area above the admin building.	Kindly elaborate the requirement & specification for viewing area like, surface area, type of cover ..etc.	The tender contains all required information for bid preparation. The bidder shall review the complete document set and verify particulars. Tender conditions prevail.
78	Vol -2 / Sec-7/Part -10B/Cl.no.1.26	10B - 25 // 740 of 1206	**1.26 Cable and Pipe work Trenches** Cable and pipe work trenches shall generally be constructed in reinforced concrete. Trenches within the buildings or Plant areas shall be covered with M25 precast R.C.C covers. The trenches shall be suitably sloped to drain rain water. All uncovered openings shall be protected with hand railing	We presume that, cable shall be laid in buried condition at outside the building. Please confirm.	Confirmed Bidder to refer "Vol 2, Part 12, cl.12.4.19 (f) - Cable Installations" for details of cable installation inside and outside the plant area.
79	Vol -2 / Sec-7/Part -10B/Cl.no.1.32	10B - 25 // 742 of 1206	**1.32 Non-Destructive Testing of RCC Structures** Non-Destructive Testing (NDT) shall be carried out as per the latest IS: 13311 codes as per the instruction given by Employer.	Since all the Wwtp & TSPS will coming under new construction, we presume NDT of RCC structures is not applicable in this Tender. Please confirm	All required supporting data have been furnished along with the tender documents. Any additional site-specific information shall be obtained by the bidder through an independent site visit. Tender conditions prevail.

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80	Vol -2 / Sec-7/Part -10B/Cl.no.1.28 & Vol -2 / Sec-7/Part -10B/SKETCH - 1	10B- 25 // 740 of 1206 & 10B- 33 // 748 of 1206	**1.28 Precast Compound Wall and Gate** Compound wall shall consist of RC precast slab panels (M25) with minimum 60m thickness with BWSSB logo, RC post at regular intervals including plinth beam as supports for the panels and necessary RC foundation system for the same along with barbed wire stretched between MS angles fixing at the top of the precast panels with necessary fixtures etc & SKETCH - 1	We presume that, 60m thickness as in specification is a Typo error and the precast panels thickness shall be 60mm as per Sketch -1. Please confirm.	Yes 60 mm thickness. Tender Conditions Prevail.
81	Vol -2 / Sec-7/Part -10B/Cl.no.1.14	10B - 8 // 723 of 1206	**1.14 Design Criteria for Underground or Partly Underground Liquid Retaining Structures** Structures shall be designed for uplift in empty conditions with the water table to be considered at Finished Ground Level (FGL).	Similar to other BWSSB jobs, we presume that the structures shall be designed for uplift in empty conditions with water table considered at High Flood Level (HFL -864.15). Please Confirm.	Tender Conditions Prevail.
82			General	We presume that, reinforcement for pile foundation shall be HYSD Fe 500 if applicable	Tender Conditions Prevail.
83	Vol -2 / Sec-7/Part -1/Cl.no.1.4	1 - 4 // 9 of 1206	**1.4 Additional Scope Details for Civil Works** The length of 2080m and clear width 5m of the plant internal roads shall be provided as indicated in plant layout. Refer Volume 3 of Drawings.	We presume the road length of 2080m is only for the indicative purpose. Actual road length shall be provided based on the Bidder's layout. Please Confirm.	Tender Conditions Prevail.
84	Vol -2 / Sec-7/Part -10B/Cl.no.1.33	10B - 28 // 743 of 1206	**1.33 Specification for Anti-Corrosive Internal Coating/Lining protection of Concrete Surfaces** 2. For the units - Anaerobic Zone, Anoxic Zones, Aeration Zones and Aeration Basin Effluent Channels, internal coating/lining shall be provided on the entire internal surface area including its floor and free board.	Similar to other BWSSB jobs, we presume that the downstream units of Primary clarifier such as a) Aeration tank b) Secondary clarifier shall be provided on the walls only from the top of the structure to 1m below the lowest operating liquid level. Please Confirm.	Tender Conditions Prevail.
85			General	Kindly share the Geo technical report for the proposed STP and TSPS.	All required supporting data have been furnished along with the tender documents. Any additional site-specific information shall be obtained by the bidder through an independent site visit. Tender conditions prevail.
86	Volume 3	6 of 12	DWG.NO-TCE.13052A-CV-3008-SL-30602 Overall Plant Layout with Contour.	Kindly provide AutoCAD Drawing format of all drawings.	Topographical survey drawing shall be collected from BWSSB.
87	Vol -2 / Sec-7/Part -1/Cl.no.1.4	1 - 4 10 of 1206	**1.4 Additional Scope Details for Civil Works** Contractor has to propose a pile foundation for all process units including for all types of buildings as a part of the foundation design of the STP.	Please provide the details of the pile foundation such as pile dia , pile capacity and length of pile.	Tender Conditions Prevail.
88	Vol -2 / Sec-7/Part -10B/Cl.no.10.16	10B - 12 // 727 of 1206	**10.16 Design Requirements** i) Walls for liquid retaining structures - 250mm. Iii) Bottom slabs/Raft for liquid retaining structures - 300mm xiv) Grade Slabs - 200mm	We presume , a) Walls for liquid retaining structures shall be 200mm. b) Bottom slabs/Raft for liquid retaining structures shall be 250mm. c) Grade Slabs shall be 150mm, shall be adopted. Please Confirm.	Tender Conditions Prevail.
89			General	Earth are dumped in the proposed site. Hence we presume that, the same shall be cleared by the client. Please confirm.	Bidder to consider in his scope.
90	Volume 2 / Section 7 Part 1- 5 Clause 1.4 Additional Scope Details for Civil Works	1 - 4 // 10 of 1206	Contractor has to propose a pile foundation for all process units including for all types of buildings as a part of the foundation design of the STP.	Type of foundation shall be as per Bidder's design.	Tender Conditions Prevail.
91	Volume 2 / Section 7 / 5.14 Hydraulic Design Requirement	103 of 1206	**5.14 Hydraulic Design Requirement** Maximum calculated normal velocity (at 20°C and 1atm) of process air piping shall be less than 16 m/s.	The velocities specified for Air line in the tender document is low. Hence we are proposing the pipe sizing velocity criteria for Air line shall be 25 m/s. Please Confirm	Not Acceptable. Tender Condition Prevails.
92	Volume 2 / Section 7 / 5.14 Hydraulic Design Requirement	103 of 1206	**5.14 Hydraulic Design Requirement** Maximum calculated normal velocity (at 20°C and 1atm) of process air piping shall be less than 16 m/s.	The aeration tank air lateral grid pipe MOC is not available in Table 8.1 (Pipework and Valve Materials). Hence, we presume that the air lateral grid pipe MOC shall be UPVC. Please confirm.	Not Acceptable. Tender Condition Prevails.
93			General	Stainless steel pipe shall be welded type. Please confirm.	Tender Condition Prevails.
94	Volume 2 / Section 7 / 5.14 Hydraulic Design Requirement	103 of 1206	Velocity of air ducting for Odour Control Units at site conditions shall be less than 8 m/s on suction side and 12m/s on discharge side.	Odour Control Duct MOC is not mentioned in the tender document. We presume that GRP MOC (Isophthalic Resin) shall be used for Odour control duct piping. Please Confirm.	Not Acceptable. It shall be FRP only as same as main vessel. Tender Conditions prevails.

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95	Volume 2 / Section 7 / 5.14 Hydraulic Design Requirement	100 of 1206	**5.14 Hydraulic Design Requirement** Overflow/bypass of the process liquid at various locations in the flow path shall be provided to overflow/bypass plant peak flows to final outfall structure.	We presume that RCC N3 Pipe shall be used for Plant bypass piping. Please Confirm.	Refer Part 8, Table 8.1.
96	Volume 2 / Section 7 / 1.3 Scope of Work	8 of 1206	**1.3 Scope of Work** Design, construction, and commissioning of all pipelines, flow meters, channels, outfall structure for the disposal of plant effluent from chlorine contact tank to nearby water body at site complete.	Kindly provide the disposal distance of plant effluent from the chlorine contact tank to the nearby water body. Please confirm.	All required supporting data have been furnished along with the tender documents. Tender conditions prevail.
97	Volume 2 / Section 7 / 1.3 Scope of Work	8 of 1206	**1.3 Scope of Work** Design, construction, and commissioning of all pipelines, flow meters, channels, outfall structure for the disposal of plant effluent from chlorine contact tank to nearby water body at site complete.	We presume that RCC pipe shall be used for disposal of plant effluent from the chlorine contact tank to the nearby water body. Please confirm.	All required supporting data have been furnished along with the tender documents. Tender conditions prevail.
98	Volume 2 / Section 7 / 2.15 Pipes and Sewer Lines	516 of 1206	Value cistern, public fountain platform, fire hydrants, etc. shall be enumerated.	Fire hydrant piping MOC is not available in the tender doucment. Hence, we presume that CS pipe shall be considered for fire hydrants. Please confirm.	All required supporting data have been furnished along with the tender documents. Tender conditions prevail.
99	Volume 2 / Section 7 / 8.39 Approved Vendor/Manufacturer/Make List-Mechanical Equipment	447 of 1206	Consolidated Mechanical Equipment Vendor List	Apart from vendor list mentioned in the tender document, bidder shall select the reputed Indian vendors. Please Confirm.	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
100	Volume 2 / Section 7 / 8.45 Valves	436 of 1206	(p) All the sludge and chemical lines shall be installed with flushing connection with ball valves for maintenance.	Ball valve specification is not mentioned in the tender document. We presume that Ball valve specification shall be as per bidders design. Please Confirm.	Ball Valve specification shall be as per BS 5351.
101	Volume 2 / Section 7 / 1.15 Battery Limits between proposed STP and incoming gravity sewer line/s	10 of 1206 15 of 1206	**Gravity-fed incoming pipelines up to terminal manholes** -This contract also includes the complete scope of work for the gravity-fed incoming pipelines up to last manhole of the proposed STP including all the required works for ensuring seamless functioning of these pipelines. The total length of these pipelines shall be 250m and diameters ranging from 800 to 1000 mm. Specific location details for these pipelines shall be as directed by the Engineer during the execution stage. **1.15 Battery Limits between proposed STP and incoming gravity sewer line/s** Last Manhole of the incoming sewer will be terminated 10m away from the plant boundary (By others). Contractor for this STP has to continue that pipe line to proposed TSPS location with same diameter and slope.	Both the clauses are contradicting with each other. We presume that the last manhole of the incoming sewer will be provided by others at a distance of 10 m from the STP plant boundary. The bidder shall take the incoming sewer connection from this last manhole up to the inlet of TSPS plant. Please Confirm.	All required supporting data have been furnished along with the tender documents. Tender conditions prevail.
102	Vol -2 / Sec-7/Part -I/Cl.no.1.4	1 - 4 // 9 of 1206	**1.4 Additional Scope Details for Civil Works** - The length of RCC precast compound wall to be provided shall be 660m as indicated in plant layout. Refer Volume 3 of Drawings. - The length of RCC retaining wall-1 (with chain link fencing above retaining wall) to be provided shall be 430m with retaining wall height of 4m as indicated in plant layout. Refer Volume 3 of Drawings. - The length of RCC retaining wall-1A (with precast compound wall above retaining wall) to be provided shall be 60m with retaining wall height of 4m as indicated in plant layout. Refer Volume 3 of Drawings. - The length of RCC retaining wall-2 (with chain link fencing above retaining wall) to be provided shall be 790m with retaining wall height of 4m as indicated in plant layout. Refer Volume 3 of Drawings.	We presume that the length of the retaining walls will be considered as per Bidder's design.	Same shall be considered as per site conditions and length of the retaining wall will vary.
103	Part 13 Particular ICA Requirements - 13.29 Particular Control & Automation Requirements c) I/O Modules:	869 og 1206	30% extra modules of installed capacity for each type of module shall be provided as spare	Bidder proposes to consider 10% extra I/O modules of the installed capacity in the panel. Please confirm.	Bidder to consider 20% extra I/O modules.
104	Part 13 Particular ICA Requirements - 13.24 Laboratory Instruments and LIMS system	848 of 1206	Laboratory Information Management software (LIMS)	Please provide the detailed specification of LIMS Software and Integration of LIMS Software with SCADA.	All required supporting data have been furnished along with the tender documents. Tender conditions prevail.

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105	i) Part 7 General ICA Requirements - F. Cable installation methods - II. Installation directly into the ground . Ii) i) Part 7 General ICA Requirements - E.Cabling - X. Cable trays and ladders	i) 291 of 1206 ii) 290 of 1206	Where cables are buried in the earth, the bottom of the excavated trenches shall be freed of sharp stones and other projections and covered with sand to a depth of 50mm. All instrumentation cables shall be laid in separate cable tray with covers.	The mentioned statements appear to be contradictory. Kindly confirm that the bidder shall consider all instrumentation cables as directly buried in outdoor. Exposed trays in outdoor shall be provided with cover only for the top layer. In indoor, cables shall be routed in cable trays without cover	Confirmed.
106	Part 13 Particular ICA Requirements - 13.31 Typical Drive Control Philosophy table	875-877 of 1206	Typical Drive Control Philosophy table	Bidder is free to choose the control philosophy for drives as per process design requirement. IO's shall be decided by the bidder based on process requirement. Please confirm.	Tender conditions prevail.
107	Part 13 Particular ICA Requirements - 13.5 Field Instrumentation and Control	824 of 1206	All field instruments shall be mounted within enclosures that are corrosion proof, dust proof and waterproof to provide a minimum protection specified elsewhere in this Specification. The enclosure shall be rated to minimum IP 65.	Bidder assumes that the enclosures are to be provided only for outdoor instruments. Bidder shall provide IP-65-rated enclosures exclusively for field instruments with a protection rating lower than IP-65. Bidder assumes that if the provided transmitter/analyser has a IP-65 rating enclosure, then no separate additional enclosure needs to be provided. Please confirm.	Tender conditions prevail.
108	Part 13 Particular ICA Requirements 13.4 CONTROL SYSTEM – DESIGN & CONSTRUCTION FOR STP AND TSPS	816 of 1206	A general arrangement of a typical control system is shown in the Drawings.	The above said Drawing is missing. Please share the Typical Control System Architecture.	All required supporting data have been furnished along with the tender documents. Tender conditions prevail.
109	Part 13 Particular ICA Requirements-CONTROL SYSTEM – DESIGN & CONSTRUCTION FOR STP AND TSPS	814 of 1206	This SCADA system shall be designed and configured to transmit complete STP and TSPS operational data (data transfer in bulk) to the CP-24 and BWSSB MIS-2 SCADA center at SHIMSHA Bhavan.	Bidder understand that STP operational datas shall be shared through GSM/GRPS from SCADA system at control room Milasandra to BWSSB MIS-2 SCADA center at SHIMSHA Bhavan. Hardware and software required for BWSSB MIS-2 SCADA center at SHIMSHA Bhavan is not in bidder scope, Please confirm.	All required supporting data have been furnished along with the tender documents. Tender conditions prevail.
110	Part 13 Particular ICA Requirements 13.35 Approved Vendor/Manufacturer/Make List-Automation	884 of 1206	Approved Vendor/Manufacturer/Make List-Automation	Bidder shall consider Authorized System Integrators duly certified by the approved vendors for the execution of the system.Please Confirm.	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
111	Part 13 Particular ICA Requirements 13.34 Approved Vendor/Manufacturer/Make List-Instrumentation	881 of 1206	All products shall be completely manufactured in the country of Origin as indicated. Assembled products shall not be accepted.	In cases where the country of origin for a vendor is not specified, the bidder may consider the country of origin/ assembly to be open for selection. Please confirm.	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
112	Part 13 Particular ICA Requirements 13.34 Approved Vendor/Manufacturer/Make List-Instrumentation	881 of 1206	All products shall be completely manufactured in the country of Origin as indicated. Assembled products shall not be accepted.	Bidder proposes to consider same brand as mentioned in the list with India as country of origin.	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
113	Part 5 - Process Requirement - 5.16.1 Treated Effluent quality Requirement at Oulet CCT	119 of 1206	At the Inlet & Outlet of the sewage treatment plant online multiparameter analytical monitoring devices should be provided to monitor above all parameters.	Bidder shall consider laboratory measurement of Fecal Coliform at both Inlet & Outlet. Please confirm.	Tender conditions prevail.
114	Part 13 Particular ICA Requirements 13.24 Online Analytical Instrumentation	837 of 1206	Transmitter Type - Four Wire	Bidder Shall Consider 2Wire Transmitter wherever applicable. Please confirm.	Tender conditions prevail.
115	PART 13B PARTICULAR OPERATION AND CONTROL PHILOSOPHY	928 of 1206	**13.1.2.4 Actuated Valves :** Flow Meter Valves: Actuated valves shall be installed on both the upstream and downstream sides of all flow meters to facilitate process control and flow isolation through STP SCADA HMI.	Bidder shall consider manual valves on both upstream & Downstream of all flow meters. Please confirm.	Tender conditions prevail.
116	PART 5 PROCESS REQUIREMENT 5.20 Locations and Frequencies for Sampling & Online Analyzers/Measurements	116 of 1206	**Multi-gas monitoring system** for (CH4, CO2, H2S, N2, O2, Temperature and Moisture) 1) Inlet of Biogas Engine	Bidder shall consider Gas detectors at the Inlet of Biogas Engine. Please confirm.	Tender conditions prevail.
117	PART 5 PROCESS REQUIREMENT 5.22 TSPS & STP Design/Sizing Criteria and Minimum Requirements	141 of 1206	**LIST OF FLOW MEASUREMENT** 1.Overflow/bypass line from TSPS to final outfall structure 2.Bypass line before the Parshall flume to final outfall structure 3.Bypass flow measurement from common outlet channel of primary clarifiers before the Parshall flume to final outfall structure 4.Common Disc filters bypass flow measurement	Bidder propose to connect all the bypass/overflow lines to a common header and install a single Electromagnetic Flow Meter (EMF) at the header, which will measure the combined bypass/overflow flow.Kindly confirm.	Tender Conditions Prevails.
118	Part 12 PARTICULAR ELECTRICAL PLANT REQUIREMENTS	part 12-page-9	The energy efficiency level (EEL) of the transformer shall comply with the latest amendment of IS 1180 with minimum EEL of Level II	The bidder shall consider for using a **Level I energy efficiency transformer**, meets all functional and performance requirements of the project	Tender specifies minimum EEL level II. Tender conditions prevail.
119	Volume-2/12.4.9-Distribution Transformer - 11/0.433kV Transformers		The transformers shall be outdoor type, ONAN, 11/0.433 kV, 3 phase, 50 Hz, two winding, Dyn11 with solidly earthed neutral with OLTC	The bidder shall consider for OCTC instead of OLTC , meets all functional and performance requirements of the project	Tender Conditions Prevails. Bidder to refer Vol 2, Part 6, Cl. No. 6.3.9 for OCTC & OLTC requirements

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Sr. No.	Vol.No. / Clause No.	Pg No.	Description	Bidder's Queries	BWSSB Replies
120			The transformers shall be sized considering 15% contingency of total working load while arriving at the final capacity of transformers. The transformers shall be designed such that at any point of time maximum loading (including Contingency Capacity) on any single transformer shall not exceed 85% of full load capacity.	The Bidder shall consider 2 Nos. of transformers, each of 50% plant load capacity shall be provided (2 × 50% configuration). However, 15% contingency and 85% loading of transformer to be considered.	Tender Conditions Prevails.
121	Part 12 PARTICULAR ELECTRICAL PLANT REQUIREMENTS Volume-2/12.3- Power Supply Arrangement	Part-12-Page-3	**STP:** The outgoings of the 11kV indoor panel for plant distribution shall feed • 2 Nos. of 11/0.433kV Distribution Transformers for WWTP plant loads. • 2 Nos. of 11/0.433kV Distribution Transformers for Process Air Blowers loads.	The tender documents considers 4 units of 11/0.433KV transformers. The bidder assumes the transformer size and qty can be revised based on the process design load. Please confirm	Tender Conditions Prevails.
122	Part 12 PARTICULAR ELECTRICAL PLANT REQUIREMENTS Volume-2/12.4.6- System Protection	Part-12-Page-7	(i) Motors upto 11kW Motor Protection Circuit Breaker (MPCB) (ii) Motors 15kW up to 75kW MCCB (iii) Motors above 75kW ACB/MCCB	The bidder shall consider using a 400A MCCB for current rating up to 400A, and an ACB for current rating above 400A. Please confirm.	Tender Conditions Prevails. Bidder to refer Vol 2/ Sec 7, Part 12, Cl. 12.4.11 for MCCB/ACB selection based on feeder ratings.
123	Part 12 PARTICULAR ELECTRICAL PLANT REQUIREMENTS Volume-2/12.4.7- Switchgear Instruments	Part-12-Page-12	**415V Motor Starter Feeders** (i)DOL Starters for motor feeders less than or equal to 5.5kW (ii) Star-Delta Starters for motor feeders above 5.5kW and up to 30kW (iii) Line/Neutral Soft Starters for motor feeders above 30kW	The bidder proposes to consider the selection of motor starters as follows: Direct On-Line (DOL) starters for motors less than or equal to 55 kW. Soft starters for motors greater than or equal to 55 kW. VFDs shall be chosen based on process requirements. Please confirm	Tender Conditions Prevails.
124	Part 6 GENERAL ELECTRICAL REQUIREMENTS Volume-2/6.5-415V Metal Enclosed Switchgears (PCC / MCC)	Part-6-Page-29	The 415V metal-enclosed switchgear (PCC/MCC) system shall have provisions for interoperability with the instrumentation control system. MCC / PCC panel boards shall be offered for final inspection at the OEM's works with routine tests.	Bidder proposed to considered authorized system integrator for LV panel (PCC/MCC). Please confirm	Tender Conditions Prevails. Refer Part 6, Cl 6.19 under Note of Sl. No. 6 "Authorized license partners / System Integrators of above manufacturer's shall be TTP certified for IEC 61439"
125	Part 6 GENERAL ELECTRICAL REQUIREMENTS Volume-2/6.53 & 12.4.6-Air Circuit Breaker (ACB)	Part-6-Page- 34 & Part-12- Page-10	Air circuit breaker shall be selected for feeders for load current more than 630A	In the ACB schedule, Clause No. 6.5.3 mentions that Air circuit breaker shall be selected for feeders for load current more than 630A, but Clause No. 12.4.6 Motors above 75kW ACB/MCCB. Please clarify which one is to be followed?	Tender Conditions Prevails. Bidder to note that ACB selection criteria is already specified in cl. 6.5.3. Also MCCB/ACB selection based on feeder ratings is also specified under Vol 2/ Sec 7, Part 12, Cl. 12.4.11.
126	Part 6 GENERAL ELECTRICAL REQUIREMENTS Volume-2/6.5.4 & 13.29-Intelligent Motor Protection Relay , DWG No- TN-KWSDRP-WBS5-IC-5009 & Typical Drive Control Philosophy to be provided on a minimum shall be as follows:	Part 6-35 & Part-13 Page-59	The intelligent motor controller for 3-phase AC induction motors combining the two classical functions of motor protection and motor management in a single device plus offering diagnostic and fieldbus communication.	Bidder shall consider Conventional PCC/MCC instead of Intelligent Panel, meets all functional and performance requirements of the project.	Confirmed for Conventional PCC/MCC instead of Intelligent Panel which shall meet all functional and performance requirements of the project. Tender Conditions Prevails.
127	Part 12 PARTICULAR ELECTRICAL PLANT REQUIREMENTS Volume-2/12.5.11- 415V PCC / MCC	Part 12-Page-13	415V PCC/MCC & 415V DG PCC shall be Single front, floor standing, top cable entry, sheet steel enclosed with IP 54 Degree of Protection	The bidder shall consider double front type , Bottom entry , fixed type panels(PCC/MCC panel).	Tender Conditions Prevails
128	General		Cable Tray	The bidder presumes that all external cables shall be directly buried, and cables within the building shall be laid in cable trays. Please confirm.	Confirmed Bidder to refer "Vol 2, Part 12, cl.12.4.19 (f) - Cable Installations" for details of cable installation inside and outside the plant area.
129	Part 12 PARTICULAR ELECTRICAL PLANT REQUIREMENTS Volume-2/12.5- Switchgear Instruments	Part 12-Page-24	As per the approved drawings and technical specifications, the bus bar material in the MV panel is mentioned as Copper.	The bidder proposed that use of Aluminium bus bars—designed and sized to meet the equivalent current carrying capacity, temperature rise, and short-circuit withstand requirements—will be acceptable for this project.	Tender Conditions Prevails
130	Part 12 PARTICULAR ELECTRICAL PLANT REQUIREMENTS Volume-2/12.4.10-DG requirements	Part 12-Page-09	Minimum 2 Nos. of Standby Generator sets shall be provided and sized for power backup for all the STP/TSPS loads required for continuous operation during main power failure.	DG source will be redundant supply incase of any one of the incomer failure.DG sized for critical loads of plant load.	Tender Conditions Prevails Bidder to refer Vol 3, Dwg. No. TCE.13052A-EL-4001-AU-40061 for further clarification.
131	Part 12 PARTICULAR ELECTRICAL PLANT REQUIREMENTS Volume-2/12.4.18-110V DC Power Supply	Part 12-Page-12	A Conventional system operating at 110V DC using maintenance free rechargeable Ni Cd batteries shall be provided	The proposed VRLA batteries will meet all required capacity, reliability, and safety standards while also offering easier maintenance and cost benefits. Kindly confirm if the use of VRLA batteries is acceptable in place of Ni-Cd batteries.	Tender Conditions Prevails

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REPLY TO PRE-BID QUERIES, PRE-BID MEETING DATED: 11.02.2026

Sr. No.	Vol.No. / Clause No.	Pg No.	Description	Bidder's Queries	BWSSB Replies
132	Part 12 PARTICULAR ELECTRICAL PLANT REQUIREMENTS Volume-2/12.4.18-110V DC Power Supply	Part 12-Page-12	A Conventional system operating at 110V DC using maintenance free rechargeable Ni Cd batteries shall be provided and shall be complete with battery, battery charger with boost & trickle charging facilities, necessary controls, indications, and DC distribution board. DCDB shall be suitable for Top cable entry.	The bidder shall consider the dc system will be desgined and sized for 1 hr (60 min) Backup time.	Tender Conditions Prevails Battery Backup time shall be 5 hours. Bidder to refer Vol 2, Part 6, cl. No.6.9.2(d) & Vol 2, Part 12, cl. 12.12.7
133			Bio gas engine	Based on the layout drawing, the bidder understands that a gas engine is required for the plant; however, the same is not indicated in the provided SLD. we understand based on earlier BWSSB tenders it shall be connected to the LV Switchboard. please confirm	Confirmed. Gas Engine power shall be connected. Bidder to refer Vol 3, Dwg. No. TCE.13052A-EL-4001-AU-40061, 415V PCC-01 drawiing for clarification on LV switchboard.
134	Part 12 PARTICULAR ELECTRICAL PLANT REQUIREMENTS	Part-12	12.3 Power Supply Arrangement	The bidder assumes that the scope of work starts from Outgoing of RMU/metering Panel. The supply and termination of the incoming cable & RMU/Metering panel shall be under the owner's scope. Kindly confirm the number of 11 kV incomers for Main 11kV Switchgear panel.	Bidder to refer Vol 2/Section 7, Part 12, Cl. 12.3 and Vol 3, Dwg. No. TCE.13052A-EL-4001-AU-40061 for further clarification.
135	60 MLD Bellandur_Volume 1 **5.3 Contractor's Responsibilities**	76 of 141 & 78 of 141	5.3.5 The Contractor shall, with due care and diligence, design, engineer, procure, execute test and commission, **including operation and maintenance for 10 years**, remedy any defects therein accordance with the provisions of the Contract. The Contractor shall provide all superintendence, labour, materials, Plant, Contractor's Equipment and all other things, whether of a temporary or permanent nature, required in and for such design, execution, completion and remedying of any defects, so far as the necessity for providing the same is specified in or is reasonably to be inferred from the Contract. 5.3.13 The contractor shall be responsible for the continued operation and maintenance of the facilities for a **period of Ten (10)** years after completion and shall be responsible for conducting the Guarantee Tests(s) for the facilities.	we understand the O&M period is 7 years. This 10 years mentioned in the para is typographical error.	Bidder to consider O&M as Seven (7) Years instead of Ten (10) Years.
136	60 MLD Bellandur_Volume 1 Appendix 3 - Price Escalation	133 of 141	For O&M Contract Co-efficient | Description of Co-efficient | Range of Weightings% | Weightings% "Bidders to Specify below (a) | Fixed Co-efficient | 20 | 20 (b) | Labour | 20 - 30 | (c) | Chemicals | 40 - 50 | (d) | Fuel | 10 | 10 | | Total | 100	1. We request the Employer to review and revise the fixed coefficient weightings from 20% to 10%, since all cost components elements are subject to increase year-on-year. 2. We request the employer to increase labour weighage to 40% and decrease the chemical to 30%	Tender Conditions Prevails.
137	60 MLD Bellandur_Volume 1 Appendix 6 – Functional Guarantees **Excess Chemicals**	137 of 141	Equal to the estimated cost of the excess chemicals and materials requirements for Operating and Maintaining the STP and related facilities at the rated capacities for a period of 7 (Seven) years after completion, based on the maximum consumption provided by the contractor under the relevant technical schedule in Section-7, Specifications and current rates charged by the Central stores of BWSSB shall be considered for excess consumed chemicals and same shall be deducted in the monthly O & M bills.	Exceeding chemical consumption than guarantee will be borne by the contractor. Hence we request employer to waive off this liquidated damages for excess chemical consumption.	Tender Conditions Prevails.

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<table>
<tr><th>Sr. No.</th><th>Vol.No. / Clause No.</th><th>Pg No.</th><th>Description</th><th>Bidder's Queries</th><th>BWSSB Replies</th></tr>
<tr><td>138</td><td>60 MLD Bellandur_Volume 1
Appendix 6 – Functional Guarantees
Penalty for chemical</td><td>136 of 141</td><td>Performance Damages as Percent of the O & M Monthly payment of STP. For STP that fails to pass the Tests during O & M period for each additional "quantum" (as defined below) of the effluent quality parameter, or part thereof, beyond the specified maximum concentration.
<table><tr><th>Parameter of (STP) O & M Monthly payment</th><th>For each additional or part of parameter</th></tr><tr><td>3%</td><td>2 mg/L, BOD</td></tr><tr><td>2%</td><td>2 mg/L, TSS</td></tr><tr><td>1%</td><td>10 mg/L, COD</td></tr><tr><td>1%</td><td>2 mg/L, TN</td></tr><tr><td>1%</td><td>0.2 mg/L, TP</td></tr><tr><td>2%</td><td>20MPN/100mL Fecal coliform</td></tr></table></td><td>We request the employer to kindly review and rationalize the proposed penalty of 1%-3% on monthly payment for each parameter exceeding the prescribed limits, as minor deviations in effluent quality and power consumption are often due to influent variability, seasonal fluctuation, inherent process tolreanace of biological system.
a. It is therefore suggested to introduce a +10% tolerance before applying penalties
b. We request the employer to reduce the penalty to 1% for each parameters.
Introduction of these clauses ensures a fair assessment of plant performance and realistic evaluation.
Please confirm.</td><td>Tender Conditions Prevails.</td></tr>
<tr><td>139</td><td>60 MLD Bellandur_Volume 2
TECHNICAL SCHEDULE X
FUNCTIONAL GUARANTEES OF THE PLANT</td><td>1201 of 1206</td><td><table><tr><th>S.No</th><th>Location</th><th>Day 1</th><th>Day 2</th><th>....</th><th>Day 30</th><th>Day 31</th><th>Total</th></tr><tr><td>1</td><td>60 MLD STP at Bellandur</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table><u>Note:</u>
1) Metered power consumption (PC_M) in a month during O&M period should be less than or equal to power consumption under actual daily operating conditions (PC_A) of the month for all constructed facilities under this contract.</td><td>We would like to highlight that plant will be operated with wide range of design envelope as the sewage load fluctuates widely . Hence it would be appropriate if the power consumption during the O&M is calculated on <u>Annual</u> <u>basis</u> and any increase in power consumption in a year at the plant above the functional guarantee value will be borne by the contractor which shall be calculated on annual basis.
(b)Any savings calculated on the annual basis shall carry forward to the subsequent year.
(c)Any savings calculated on annual basis shall be shared between employer and contractor at the rate of 50%:50%.</td><td>Tender Conditions Prevails.</td></tr>
<tr><td>140</td><td>60 MLD Bellandur_Volume 2
TECHNICAL SCHEDULE X
FUNCTIONAL GUARANTEES OF THE PLANT</td><td>1202 of 1206</td><td><table><tr><th>S.No</th><th>Location</th><th>Day 1</th><th>Day 2</th><th>....</th><th>Day 30</th><th>Day 31</th><th>Total</th></tr><tr><td>1</td><td>60 MLD STP at Bellandur</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table><u>Note:</u>
1) Actual Metered Captive Power Generation (CPG_M) in a month during O&M period should be greater than or equal to captive power generation under actual daily operating conditions (CPG_A) of the month for all constructed facilities under this contract.</td><td>We would like to highlight that plant will be operated with wide range of design envelope as the sewage load fluctuates widely . Hence it would be appropriate if the power generation during the O&M is calculated on <u>Annual</u> <u>basis</u> and any increase in power generation in a year at the plant above the functional guarantee value will be borne by the contractor which shall be calculated on annual basis.</td><td>Tender Conditions Prevails.</td></tr>
<tr><td>141</td><td>60 MLD Bellandur_Volume 1
Appendix 6 – Functional Guarantees</td><td>137 of 141</td><td>Penalty for excess power consumption
penatly for captive power generation</td><td>Since the STP operates with both power consumption and power generation it is technically appropriate to consider the "Net Power Consumption" for pentaly evalaution and levy penatly on "Net Power Consumption", as Net power ensures the actual energy efficiency of the plant and ensure the fair performance assessment.Please confirm</td><td>The benchmark values provided in tender are indicative. However, the bidder has to give the guarantees the minimum power generation as per relevant technical schedule.</td></tr>
<tr><td>142</td><td>60 MLD Bellandur_Volume 2
Section -7
1.3 Scope of work</td><td>9 of 1206</td><td>Transportation and disposal of screening, grit and dewatered sludge cake to identified land for disposal of sludge in the vicinity of 15 to 20 kms radius from the STP site.</td><td>1. We understand the Contractors scope limited to only loading, transportation, unloading of Dewatered sludge to the disposal land identified by the employer which is in 15 - 20 Km radius.
2. we understand the land for disposal will be identified by the employer. Please confirm.
3. We understand that tipping fee, statutory charges if any applicable at the disposal land shall be borne by BWSSB. Please confirm</td><td>1. Confirmed
2. Confirmed.
3. Any statutory fees shall be paid by contractor and the same will be reimbursed by employer at actuals. Contractor shall coordinate for all activities.</td></tr>
<tr><td>143</td><td>60 MLD Bellandur_Volume 2
5.22.1 60 MLD STP at Bellandur</td><td>99 of 1206</td><td><table><tr><th>Treated Sludge Quality Requirements (Dewatered Sludge)</th><th></th><th></th></tr><tr><td>Sludge Quality</td><td>-</td><td>Digested dewatered sludge</td></tr><tr><td>Maximum VSS/TSS Ratio</td><td>%</td><td>55.00</td></tr><tr><td>Minimum Solid Concentration in Dewatered Sludge</td><td>%</td><td>25.00</td></tr></table></td><td>Acheiveing ≥ 25% soild concentration at centrifuge is highly challenging and this will consume more chemical (DWPE). Also in recent Tenders 100 MLD STP floated by BWSSB the tender requirement is only 20% soild concentration. This Bellandur tender is also floated by BWSSB we request employer to revise the soild concentration as 20%. We would like to highlight at this 20% solid concentration will consume optimum chemicals and it shall be truckable without any dripping water. Please revise the solid concentration.</td><td>Minimum Solid Concentration in Dewatered Sludge shall be 22%</td></tr>
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Sr. No.	Vol.No. / Clause No.	Pg No.	Description	Bidder's Queries	BWSSB Replies
144	60 MLD Bellandur_Volume 2 5.22.1 60 MLD STP at Bellandur	46 of 56	7.1.2.5 Laboratory chemicals tonne/year_____	1. Laboratory chemicals cannot be excatly estimated in tonnes/year as it is not a process chemical and it will be used based on the number of analysis performed. Hence we request employer to change the "unit as LS" and "quantity as 1". Please confirm 2. we observe that in mailasandra STP Tender the laboratory chemicals as to be quoted as LS annual basis.	Not Relevant.
145	60 MLD Bellandur_Volume 4	10 of 1206	1.6 Performance Requirement for STP Residual Chlorine – Minimum Instantaneous | mg/L | ~0.75	As per other recent BWSSB tenders the Residual Chlorine in treated water is demanded as >0.2 to <0.5 at CCT outlet. Technically, this range is adequate to achieve effective disinfection when proper contact time is ensured, while minimizing formation of disinfection byproducts (THMs/HAAs), reducing chemical consumption, and avoiding potential impacts on downstream reuse and aquatic environment. Higher residual level do not provide proportionate additional disinfection. Hence we request employer to revise it to >0.2 to <0.5. please confirm	Tender Conditions Prevails.
146	60 MLD Bellandur_Volume 1	122 of 141	Amount of security Deposit : Five Percent (5 %) of the O & M Contract Price | [43.2]	We could not locate this clause 43.2. Please clarify	Pl. Refer SCC 43.2, Security Deposit, Page.106 of 141.
147	60 MLD Bellandur_Volume 1	122 of 141	Amount of security Deposit : Five Percent (5 %) of the O & M Contract Price	We would politely emphasize that submission of 5 % security Deposit of O&M Contract Price valid for entire 7 years may lead to substantial financial implication due to long term blocking of funds and bank charges. As per best industry practice in long term O&M contracts the contract condition allows renewable or rolling BG for the O&M phase. This approach maintains the employer security while reducing unnecessary financial strain on the contractor. Hence we request employer to reduce security as 5 % annual O&M value which can be renewed every year.	Agreed.
148	60 MLD Bellandur_Volume 4 Price Schedule	46 of 56	7.1.2.4 NaOH Total quantity ------ Tonne per year. (Bidder to mention the quantity) | Tonne Per year	We observe that in the recent tenders floated by BWSSB for 100 MLD STPs the NaOH consumption is not specified. We request the employer to remove this NaOH consumption as this depends on several external factors such as influent H2S concentration, Odour load variation, and ambient conditions which are beyond opeators controls. Hence it is requested to remove the NaOH from schedule and treat it as a consumables to ensure realistic and equitable performance evaluation.	Tender Conditions Prevails.
149	60 MLD Bellandur_Volume 1 39. Taxes	69 of 141	**39. Tax** 39.1 The rates quoted by the Contractor shall be deemed to be exclusive of all taxes (GST) that the Contractor will have to pay for the performance of this Contract. The Employer will perform such duties in regard to the deduction of such taxes at source as per applicable law.	This clause contradicts with the price schedule. As per price schedule GST to be included, However Clause 39 says quoted price should be exclusive of GST. Please confirm whether the price quoted should include GST or not, kindly clarify.	In the E-procurement portal Bidder need to enter the Rates excluding GST.
150	60 MLD Bellandur_Volume 2 5.20 Locations and Frequencies for Sampling & Online Analyzers/Measurements	109 of 1204	Fecal Coli-form | Daily | Flow-weighted 24-hours composite sample | 1) Raw Sewage 2) Final Effluent Grab sample | 1) All plant bypass flows 2) Plant Water	We request the employer to revise the sampling methods Fecal coliform (FC) analysis. Since FC testing is microbical parameter and bacteria do not remain viable or representative in time based or flow proportional composite samples, it is technically appropriate to measure this using a grab sample. Hence we proposed grab sample for FC to ensure accurate and scientifically results in line with APHA standards methods.	Tender Conditions Prevails.
151	Item wise financial bid details in the tender management pg of karnataka public procurement portal		Sl.No -9 : code- A009 "operation and maintenance of 7 years without escalation"	1. We understand the price to be quoted without considering escalation/inflation. 2. Escalation will be paid over and above the price quoted for 7 years. Please Confirm	Confirmed.
152	60 MLD belandur_volume 1 METHODOLOGY FOR PRICE BID EVALUATION	51 of 141	**(b) Determination/Evaluation of O&M Cost of Plant Excluding Energy Cost** The procedure for evaluation of Operation Cost of Plant is as follows. • The Bidder shall be asked to provide in Technical Bid for the men and materials consumptions such as guaranteed consumption of chemicals. • The Bidder shall quote for the quantity of chemical and material consumptions as submitted in Technical Schedule-V for the O & M period of seven (7) years considering inflation.		
153	60 MLD belandur_volume 1 Appendix 3 - Price Escalation	132 of 141	B) Price Adjustment Formula for O&M Contract		Refer Volume-1

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Sr. No.	Vol.No. / Clause No.	Pg No.	Description	Bidder's Queries	BWSSB Replies
154	Volume-1	19/141	The Tenderer shall furnish, as part of his tender, ... EMD forfeited firms in the previous contracts will not be eligible to participate in the tender. Blacklisted firms in the previous contracts/bids in the last 1 (one) year will not be eligible to participate in the tender.	We understand that " Companies blacklisted by Government of India / Government of Karnataka / any other state or any Central/ State Government undertaking as on date of bid submission are not eligible to bid". Kindly Confirm	Yes, clause 3.1.3 Financial Capabilities criteria takes precedence over clause 13.1 Earnest Money Deposit (EMD).
155	Volume 1 / Tender Fee & EMD	Page 7 of 141	Tender processing: As per eprocurement portal fee Bid Security INR Crore: 2.0	Bidder presume that Tender fee and EMD amount mentioned in the tender is inclusive of GST. Kindly confirm	Tender Conditions Prevails.
156	Volume 1 - Claue 26 & LOA	Page 26 of 121 & Page 54/121	**Clause 29 -** Security Deposit: Within Twenty-Eight (28) days of receipt of the Letter of Acceptance. **LOA:** You are hereby requested to furnish Security deposit plus additional security for unbalanced tenders in terms of Clause 25.5 of ITT, in the form detailed in Clause 29.1 of ITT for an amount of INR.—— ——— within 20 days of the receipt of this letter of acceptance	Bidder requests the Employer to confirm the timeline to submit the Security Deposit for the Works Contract i.e., within 20 or 28 days from the date of Letter of Acceptance (LOA), as the days mentioned in these clauses contradicts each other. Kindly confirm the same.	Bidder to consider 28 days.
157	General		Security Deposit-BG	The Bidder requests the Employer to permit submission of the required Security Amount in the form of an Insurance Security Bond in lieu of bank guarantees for both advance and performance, in line with prevailing Government guidelines permitting such instruments.Kindly confirm	Tender Conditions Prevails.
158	Volume-1/ CONTRACT DATA	122 of 141	The site possession date is 21 days	The bidder seeks clarification on whether the site possession date (21 days) mentioned in the contract data is from the date of agreement signing. Kindly clarify the same.	Site possession is 21 days from the date of issue of Notice to Proceed
159	Volume 1, Conditions of Contract & Contracts data, Clause 41	Page 122 of 141	Liquidated Damages for Works: 0.1% of the Works Contract Price per day, in the same currency / currencies the Contract Price is payable in.	The Bidder requests that the Liquidated Damages for delay in completion of the Works be set at a rate of 0.1% of the contract price corresponding to the unfinished or incomplete portion of the Works, per day of delay. We kindly request you to consider this proposal.	Tender Conditions Prevails.
160	Volume 1, Special Conditions of Contract, Clause 5.3.3 & 5.4.2	Page 76 & 78 of 141	**5.3.3:** The Contractor shall acquire all other permits, approvals and/or licenses that are not the responsibility of the Employer under SCC Sub-Clause 5.4.2 hereof and that are necessary for the performance of the Contract. **5.4.2:** The Employer shall acquire and pay for all permits, approvals and/or licenses from all local, state or national government authorities or public service undertakings in the country where the Site is located which (a) such authorities or undertakings require the Employer to obtain in the Employer's name, (b) are necessary for the execution of the Contract, including those required for the performance by both the Contractor and the Employer of their respective obligations under the Contract.	The Bidder notes that Clause 5.4.2 does not clearly specify the list of permits, approvals, and/or licenses required, which creates ambiguity regarding the Contractor's responsibilities under Clause 5.3.3. This is particularly relevant as Clause 5.3.3 explicitly excludes items covered under Clause 5.4.2. We request clarification or a detailed list of such permits, approvals, and licenses to avoid misinterpretation and ensure compliance.	Tender Conditions Prevails.
161	Volume 1,Special Conditions of Contract, Clause 5.3.5, 5.3.13, 25.8.7	Page 77 of 141	**5.3.5:** The Contractor shall, with due care and diligence, design, engineer, procure, execute test and commission, including operation and maintenance for 10 years, remedy any defects therein accordance with the provisions of the Contract. **5.3.13:** The contractor shall be responsible for the continued operation and maintenance of the facilities for a period of Ten (10) years after completion and shall be responsible for conducting the Guarantee Tests(s) for the facilities. **25.8.7:** The contractor shall be responsible for Operation and Maintenance of the plant for a period of ten years after completion of the works and commissioning of the facilities and during that period, the contractor shall be responsible for the care and custody of the facilities or the relevant part thereof, together with the risk of loss or damage thereto	As per NIT and Contract data, the Operation and Maintenance Services of this Tender shall be Seven (07) years. However, the period contradicts and is inconsistent in the clauses mentioned in this query. Please validate the same.	Bidder to consider O&M as Seven (7) Years instead of Ten (10) Years.
162	Volume 1,Special Conditions of Contract, Clause 25.8.1	Page 96 of 141	The tests on completion shall be carried out as given below and as per SCC sub clause 62.	The Bidder understands that the cross-reference to SCC Sub-Clause 62 in this clause pertains to Operation and Maintenance. However, in the context of Clause 25.8.1, the correct reference should be Clause 60, which relates to Tests on Completion. Kindly confirm and validate our understanding.	Confirmed. Bidder to consider Clause 60 of SCC, Test on Completion
163	Volume 1,Special Conditions of Contract, Clause 17.2.2	Page 79 of 141	The Time for Completion of the whole of the Facilities shall be 30 months including commissioning from the Start Date as described in the Contract Agreement.	Bidder understands that the time for completion of the whole of the facilities mentioned in this sub clause shall be read as 36 months which is as per the Contract data. Kindly confirm our understanding.	Confirmed. Bidder to consider 36 Months.
164	Volume 1,Special Conditions of Contract, Clause 48	Page 123 of 141	The amount to be withheld for failing to supply "As built" drawings and "Supply of Updated Operation and Maintenance Manuals" by the date required is INR 50,00,000	Bidder requests that the amount to be withheld under this clause shall not be more than INR 10,00,000/-, similar to other BWSSB STP tenders floated recently. Kindly confirm the same.	Tender Conditions Prevails.

BANGALORE WATER SUPPLY AND SEWERAGE BOARD (BWSSB)

NAME OF PROJECT : DESIGN, CONSTRUCTION, AND COMMISSIONING OF 60 MLD STP BASED ON A2O WITH BNR, TERTIARY TREATMENT, POWER GENERATION & ODOUR CONTROL UNITS AT BELLANDUR INCLUDING 7 YEARS OF OPERATION & MAINTENANCE. (TURNKEY CONTRACT) - 2nd Call

REPLY TO PRE-BID QUERIES, PRE-BID MEETING DATED: 11.02.2026

Sr. No.	Vol.No. / Clause No.	Pg No.	Description	Bidder's Queries	BWSSB Replies
165	Volume 1, Appendix-1, Terms of Payment	Page 125 of 141	**Site survey and subsoil investigations:** 25% - Completion of field surveys and subsoil investigations and de-mobilization from site of survey team 75% - Submission of surveys and soil investigation reports and acceptance by the Employer's Representative.	In order to facilitate improved cash flow for the Contractor during the site survey and subsoil investigations for the given scope of works, we hereby formally request consideration of the following payment terms: **50%** - Completion of field surveys and subsoil investigations and de-mobilization from site of survey team **50%** - Submission of surveys and soil investigation reports and acceptance by the Employer's Representative. This request is made to ensure financial stability throughout the preliminary phases of the project. Please confirm acceptance or provide any revisions deemed necessary.	Tender Conditions Prevails.
166	Volume 1, SCC & Contract data Clause 63	Page 124 of 141	**Provisionsal Sums:** (b) Plant, Materials or services to be purchased by the Contractor, for which there shall be included in the Contract Price: (i) the actual amounts paid (or due to be paid) by the Contractor; and (ii) a sum for overhead charges and profit, calculated as a percentage of these actual amounts by applying the relevant percentage rate (if any) stated in the appropriate Schedule. If there is no such rate, the The Contractor shall, when required by the Employer's Representative, produce quotations, invoices, vouchers and accounts or receipts in substantiation.	Bidder understands that the Point (ii) in this clause 63 of Contract data is incomplete in the tender. Kindly include and provide the suitable and appropriate provisions as deemed necessary.	Tender Conditions Prevails.
167	General		Vendor List	Bidder preumes that Vendor list mentioned in the tender is tentative, bidder can propose the make list further during detail engineering for employer approval. Kindly confirm	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
168	General		Force Majeure	Bidder observed that force majeure was not availaible. So kindly provide the same in addendum.	Tender Conditions Prevails.
169	General		Change in law	Bidder observed that change in law was not availaible. So bidder presumes that any impact based on the change in law will be considered as per actuals.	Tender Conditions Prevails.
170	General		Suspension of work	Bidder observed that suspension of work clause was not availaible. So kindly provide the same in addendum.	Tender Conditions Prevails.
171	Volume-1/37.1	68 of 141	Payments shall be adjusted for deductions for advance payments, other recoveries in terms of the contract and taxes, at source, as applicable under the law. The Employer shall pay the Contractor the within 60 days of submission of bill. The Contractor shall be liable to pay liquidated damages for shortfall in progress as per milestone set in Works Contract. For Progress beyond the agreed programme, payment is subject to availability of the grants.	The Bidder requests that the payment release period be reduced from 60 days to 30 days from the date of submission of the bill. This proposed timeline will enable the Contractor to meet site-related expenses promptly and maintain healthy cash flow during the execution of the Works. Also, Bidder requests for an interests towards delayed payment at the rate of SBI MCLR + 2% for the payment due from the due date till the date of payment is completed by the Employer. We kindly seek your confirmation on this request.	Tender Conditions Prevails.
172	Volume-1/29	26 of 141	Within Twenty-Eight (28) days of receipt of the Letter of Acceptance, the successful Tenderer shall deliver to the Employer a Security deposit in any of the forms given below for an amount equivalent to 5% of the Works Contract Price plus **additional security for unbalanced tenders** in accordance with Clause 25.5 of ITT and Clause 44 of the Conditions of Contract. Banker's cheque/Demand draft/Pay Order in favour of Chief Engineer (WWM-P-East), BWSSB payable at Bangalore	The tender does not specify the exact amount or percentage for the additional security required in case of an unbalanced bid. Kindly confirm and provide the applicable provisions	Tender Conditions Prevails.
173	Volume 1, Appendix-6, Functional Guarantees	Page 137 of 141	**Power Consumption: Excess consumption of electrical energy for Operating and Maintaining of STP and related facilitates** Equal to the estimated cost of the excess energy requirements for Operating and Maintaining the STP, Pumping stations and related facilities at the rated capacities for a period of 7 (Seven) years after completion, based on the maximum consumption provided by the contractor under the relevant technical schedule in Section-7, Specifications and current rates charged by the power supply company for electricity consumed by the plant and facilities.	Bidder requests that this clause shall be modified as follows, which is followed in past BWSSB tenders: Equal to the estimated cost of the excess energy requirements for Operating and Maintaining the STP, Pumping stations and related facilities at the rated capacities for a period of 7 (Seven) years after completion, based on the maximum consumption provided by the contractor under the relevant technical schedule in Section-7, Specifications and current rates charged by the power supply company for electricity consumed by the plant and facilities, **discounted to net present value at the rate of 8 % per annum.**	Tender Conditions Prevails.
174	Volume 1, Conditions of Contract, Clause 35.2	Page 67 of 141	For quantities in excess of 125% of the tendered quantity of an item as given in the BOQ, the Contractor shall be paid at the rate entered in or derived from in the Schedule of Rates (applicable for the area of the work and current at the time of award of contract) plus or minus the overall percentage of the original tendered rates over the current Schedule of Rates prevalent at the time of award of contract.	Bidder requests that the threshold for quantity variation, currently set at 125% of the tendered quantity under this clause, be revised to 110%. The Contractor shall be entitled to apply a new rate for any quantity exceeding 110% of the tendered quantity for an item. This adjustment aligns with industry practice and is consistent with provisions typically adopted under FIDIC-based contracts. We kindly request you to consider this amendment.	Tender Conditions Prevails.

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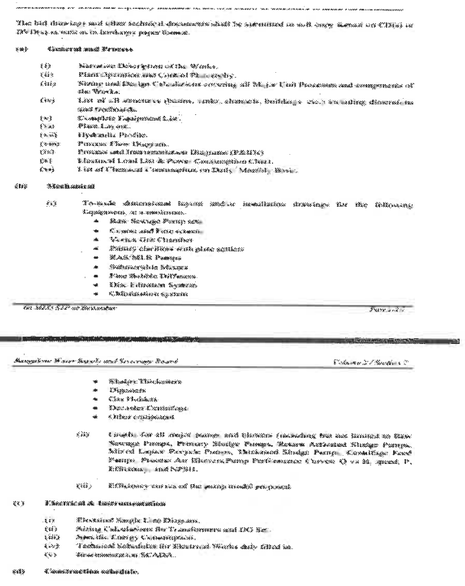
REPLY TO PRE-BID QUERIES, PRE-BID MEETING DATED: 11.02.2026

Sr. No.	Vol.No. / Clause No.	Pg No.	Description	Bidder's Queries	BWSSB Replies
175	Volume 1 - SCC Clause 43.2	Page 106 of 141	**43.2 Security Deposit** After successful commissioning and guarantee tests of the Treatment Plant and taking over by the Employer, within 14 days the Contractor shall submit to the Employer security deposit for the O&M Contract in the form of an unconditional Bank Guarantee in the amount as stated in the Contract Data, payable to the Employer who is responsible for the O&M Contract. Such guarantee shall conform to the requirements set forth in the preceding two paragraphs, and shall be valid up to 30 days beyond expiry of the Operation and Maintenance Period.	Bidder requests that the Security Deposit for O&M Contract shall be reduced proportionately at the end of each completed year of O&M, reflecting the value of remaining O&M contract period. Kindly confirm the same.	Tender Conditions Prevails.
176	Volume 2/part 1-4/1.4	9 of 1206	Civil points to be noted and implemented for STP and TSPS: All trees, vegetation shall be removed after obtaining necessary permissions/approval from the concerned authority and as per the instructions of the Engineer.	As per statutory requirements, approval from the Forest Department is necessary for cutting or uprooting of trees. Since such permissions are best facilitated by the landowner or project proponent, it is feasible for the customer/employer to obtain these approvals. We kindly request the employer to take responsibility for securing the necessary approvals from the concerned Department. The contractor will extend full support to the employer by assisting with the liasoning process for obtaining these permits. Please confirm.	Confirmed.
177	volume-2/part 3-16/3.16.3	42 0f 1206		The bidder respectfully requests the Employer to consider reducing the volume and extent of document submissions required along with the bid. Due to the short time frame provided for bid preparation and submission, it is challenging to compile and authenticate all supporting documents within the stipulated period.	Tender Conditions Prevails.
178	General			During site visit we have noticed that, Earth are dumped in the proposed site. Hence we presume that, the same shall be cleared by the client. Please confirm.	Bidder to consider in his scope.
179	Volume-2/ Part 1-2/1.3	7 of 1206	All existing facilities that are to be demolished to accommodate TSPS and STP shall be properly de-commissioned, removed, stacked and appropriately disposed of by the Contractor after getting the approval on its Salvage value as directed by Engineer.	Based on the site visit ,bidder presumes that there is no demolishing activities at the allotted location. Kindly confirm	Bidder to Field Verify.

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Sr. No.	Vol.No. / Clause No.	Pg No.	Description	Bidder's Queries	BWSSB Replies
180	60 MLD Bellandur_Volume 2	118 of 1206	<table><tr><td>Influent Wastewater Characteristics</td><td></td><td></td></tr><tr><td>pH</td><td>-</td><td>6.5-7.5</td></tr><tr><td>BOD</td><td>mg/L</td><td>350.00</td></tr><tr><td>COD</td><td>mg/L</td><td>800.00</td></tr><tr><td>TSS</td><td>mg/L</td><td>450.00</td></tr><tr><td>VSS</td><td>mg/L</td><td>360.00</td></tr><tr><td>TKN</td><td>mg/L</td><td>70.00</td></tr></table>	We observe TKN is in the range of 45 - 50mg/l in STPs operated under BWSSB sites so the specified range of 70 mg/l is higher side hence please clarify the optimal TKN number to be considered in the design. Otherwise unnecessary it will increase the capital expenses.	Tender Conditions Prevails.
181	Volume -I	85 OF 154	Appendix 6 – Functional Guarantees Power Consumption	Bidder presume that power consumption penalty is not applicable during test on completion. kindly confirm	Tender Conditions Prevails.
182	Volume -I	85 OF 154	Appendix 6 – Functional Guarantees Captive Power Generation	Bidder presume that captive power Generation penalty is not applicable during test on completion. kindly confirm	Tender Conditions Prevails.
183	Volume -I	85 OF 154	Appendix 6 – Functional Guarantees Chemicals and material Consumption: Excess consumption of Chemical & materials	Bidder presume that chemical consumption penalty is not applicable during test on completion. kindly confirm	Tender Conditions Prevails.
184	60 MLD Bellandur_Volume 2 / 1.3 Scope of Work	8 of 1206	Design, construction, and commissioning of all pipelines, flow meters, channels, outfall structure for the disposal of plant effluent from chlorine contact tank to nearby water body at site complete.	Flow meter bypass line and isolation valves are not mandatory. Please Confirm.	Tender Conditions Prevails.
185		886 of 1206	Each individual STP SCADA system shall comprise the following on a minimum: a) Dual redundant SCADA servers with SCADA server software with minimum twenty five thousand tags license and web servers: b) Historian server system inclusive of the historian software to match the tag database of the SCADA software, i.e. Twenty five thousand tags	The bidder proposes to consider Historian & SCADA tags as per the process design requirement. Please confirm.	Tender Conditions Prevails.

Addl. Chief Engineer
(WWM-Project-East)
BWSSB

Chief Engineer (UWP)
5th Floor, Cauvery Bhavan
BWSSB